

5.05 CONCRETE CURING MATERIALS

5.05.01 GENERAL

These instructions cover the inspection, sampling and testing of burlap, liquid membrane-forming compounds, white polyethylene sheeting and concrete curing blankets.

The materials listed are of two types, those which maintain an excess of moisture on the concrete surface (burlap) and materials which form a vapor barrier to reduce moisture loss from the concrete (liquid membrane-forming compounds, concrete curing blankets and polyethylene sheeting).

5.05.02 BURLAP

- (a) Basis of Acceptance.

See Standard Specifications Manual Subsection 1403.

- (b) Inspection and Sampling.

All burlap is visually inspected prior to use to determine compliance with applicable portions of the specifications. Normally, burlap will only be sampled to check the weight. However, if the inspector suspects the material is contaminated with a water soluble ingredient which retards setting of the concrete, the materials should be sampled in accordance with **5.19.02**. Such samples are submitted to the Materials and Research Center.

5.05.03 LIQUID MEMBRANE FORMING COMPOUNDS

- (a) Basis of Acceptance.

See Standard Specifications Manual Subsection 1406.

- (b) Sampling.

Acceptance by certification will be discontinued if tests show poor quality control during production.

Samples are taken from the containers in which the material is shipped. Prior to sampling, the material must be thoroughly mixed to ensure that a representative sample is obtained.

Sample size shall be in accordance with the requirements of subsection **5.19.02**.

- (c) Infrared Spectroscopy.

Verification samples will be screened using IR testing by Chemistry section at the MRC. Only samples deviating from original IR will have full set of tests performed.

5.05.04 WHITE POLYETHYLENE SHEETING

- (a) Basis of Acceptance.

See Standard Specifications Manual Subsection 1405.

5.05.05 CONCRETE CURING BLANKET

- (a) Basis of Acceptance.

For new materials, Type B certification must be submitted to the Engineer of Tests. An authorization to accept will be issued upon determination that the material meets specification requirements. Used material is accepted on the basis of a visual inspection by the Field Engineer.

- (b) Inspection and Sampling.

This material must be inspected at the time of delivery to the project for any visible defects. Imperfections such as holes, slits, tears, etc., in the curing blanket which will render it permeable to water will be cause for rejection.

Samples of this material are to be taken only when its quality is questionable.

Sample size shall be in accordance with the requirements of subsection **5.19.02**.